

DECORATIVE INTERIOR SOUND ABSORBING PANEL

ABSTRACT OF THE DISCLOSURE

A multi-layered fiber reinforced thermoplastic sound absorbing panel includes a porous fiber reinforced thermoplastic core layer having a first surface and a second surface, and includes a thermoplastic material and from about 20 weight percent to about 80 weight percent fibers, a tie layer covering the second surface of the core layer and including a thermoplastic material, and a barrier layer covering the tie layer. The barrier layer includes a thermoplastic material having a melting temperature higher than the melting temperature of the core layer thermoplastic material. The tie layer bonds the barrier layer to the core layer. The panel also includes a non-woven layer including a fabric bonded to the barrier layer. The non-woven layer forms an outer surface of the panel.